	Application No.	Applicant(s)
Notice of Allowability	09/802,556	HYNECEK, JAROSLAV
	Examiner	Art Unit
	Chriss S. Yoder, III	2622
	Ciliss S. Toder, III	2022
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>RCE filed 05/22/2006</u> .		
2. The allowed claim(s) is/are 1-4, 6, 9, and 11 (now renumbered 1-7).		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority under a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	been received.	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗍 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. Notice of References Cited (PTO-892)	5	Patent Application (PTO-152)
Notice of References Cited (F10-932)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
	Paper No./Mail Dat	te
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/09)</li> <li>Paper No./Mail Date</li> </ol>	8), 7. 🛛 Examiner's Amendr	nenvComment
4.   Examiner's Comment Regarding Requirement for Deposit	8.   Examiner's Statement	ent of Reasons for Allowance
of Biological Material	9. 🔲 Other	

Application/Control Number: 09/802,556

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## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 8 has been canceled. The reason for this is based on the amendment filed 09/13/2004, in which claim 8 was previously cancelled, and now it is indicated as currently amended. A claim which was previously canceled may be reinstated only by adding the claim as a "new" claim with a new claim number. 37 CFR 1.121(c)(5).

Claim 11 has been added by the Examiner as a replacement of the above canceled claim 8.

The amendments to claim 11 is listed below:

11. (New) The image sensor according to claim 4, wherein the CCD register has a charge overflow barrier and a charge overflow drain incorporated in at least one of its stages to prevent charge blooming in the direction of charge transfer.

## Allowable Subject Matter

Claims 1-4, 6, 9, and 11 are allowed.

The following is an examiner's statement of reasons for allowance:

As for claim 1, the prior art does not teach or fairly suggest the use of a solid-state image sensor having a readout architecture having a first and second CCD register having a width that varies in proportion to the increasing amount of charge depending on the number of CCD stages that include charge multiplication devices.

As for claim 4, the prior art does not teach or fairly suggest the use of a solid-state image sensor having a readout architecture having a CCD register having a progressively wider width, wherein the width of the register and the number of charge multiplication elements varies according to a predetermined formula.

As for claim 9, the prior art does not teach or fairly suggest the use of a solid-state image sensor having a readout architecture having a CCD register having a width and a number of charge—multiplication elements that varies according to a predetermined formula which has an exponential dependency on the number of CCD stages that include charge multiplication devices.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chriss S. Yoder, III whose telephone number is (571) 272-7323. The examiner can normally be reached on M-F: 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CSY June 16, 2006

PRIMARY EXAMINER